

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/053706 A1

(51) International Patent Classification⁷: **A61K 31/5575**,
A61P 15/06

(21) International Application Number:
PCT/GB2004/005087

(22) International Filing Date: 2 December 2004 (02.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0327975.9 2 December 2003 (02.12.2003) GB
PCT/GB2004/001380
29 March 2004 (29.03.2004) GB

(71) Applicant (for all designated States except US): **IM-
PERIAL COLLEGE INNOVATIONS LIMITED**
[GB/GB]; 12th Floor, Electrical and Electronic Engineer-
ing Building, Imperial College, London SW7 (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BENNETT, Phillip**,
Robert [GB/GB]; 12 St. Margaret's Road, Acton, London
W7 2HF (GB). **LINDSTRÖM, Tamsin** [GB/GB]; 4A Mil-
ton Road, Acton, London W3 6QA (GB).

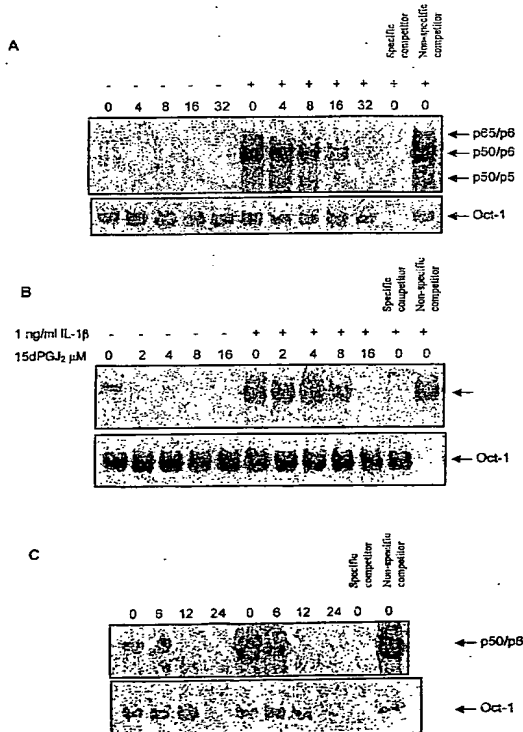
(74) Agent: **THOMAS, Philip**; Eric Potter Clarkson, Park
View House, 58 The Ropewalk, Nottingham NG1 5DD
(GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

[Continued on next page]

(54) Title: **USE OF A CYCLOPENTENONE PROSTAGLANDIN FOR DELAYING FOR THE ONSET AND/OR PREVENTING
THE CONTINUATION OF LABOUR**

(57) Abstract: The present invention provides the use of a cy-
clopentenone prostaglandin in the manufacture of a medicament
for delaying the onset and/or preventing the continuation of labour
in a female. Preferably the cyclopentenone prostaglandin prevents
and/or reduces an inflammatory response in the reproductive sys-
tem of a female. Preferably, the cyclopentenone prostaglandin is
15-deoxy- $\Delta^{12,14}$ -prostaglandin J₂ or prostaglandin A₁, or a precur-
sor thereof. The invention further provides a pharmaceutical com-
position comprising cyclopentenone prostaglandin and methods of
use thereof.



BEST AVAILABLE COPY



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*